

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/014772

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C07C51/47, 51/265, 51/487, 63/26//B01D12/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C07C51/47, 51/265, 51/487, 63/26-63/30, B01D12/00, B01J19/00,
C07B63/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 9-286758 A (Mitsubishi Gas Chemical Co., Inc., et al.), 04 November, 1997 (04.11.97)	1-2
X	JP 9-286759 A (Mitsubishi Gas Chemical Co., Inc., et al.), 04 November, 1997 (04.11.97)	1-2
X	JP 10-45667 A (Mitsubishi Gas Chemical Co., Inc., et al.), 17 February, 1998 (17.02.98)	1-2
X	JP 8-231465 A (Mitsubishi Gas Chemical Co., Inc., et al.), 10 September, 1996 (10.09.96)	1-2

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
24 December, 2004 (24.12.04)Date of mailing of the international search report
25 January, 2005 (25.01.05)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 1-160942 A (Mitsui Petrochemical Industries, Ltd.), 23 June, 1989 (23.06.89)	1-2
X	JP 2000-191583 A (Mitsui Chemicals, Inc.), 11 July, 2000 (11.07.00)	1-2

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/JP2004/014772

JP 9-286758 A	1997.11.04	(Family: none)
JP 9-286759 A	1997.11.04	(Family: none)
JP 10-45667 A	1998.02.17	EP 822176 A2 ES 2167651 T3 KR 98009220 A US 5777161 A
JP 8-231465 A	1996.09.10	DE 69521979 T2 EP 719576 A1 KR 352693 B1 US 5712412 A
JP 1-160942 A	1989.06.23	CA 1316939 C CN 1033619 A DE 280096 A5 DE 3871351 T2 EP 321272 A1 ES 2037248 T3 RU 2002731 C1 US 5008450 A
JP 2000-191583 A	2000.07.11	(Family: none)